

CLAIMS

What is claimed is:

- 5 1. An engineered zinc finger protein that binds to a target site in a plant gamma-tocopherol methyl transferase (GMT) gene.
2. The zinc finger protein of claim 1, wherein said protein modulates expression of GMT.
- 10 3. A fusion polypeptide comprising a zinc finger protein according to claim 1 and at least one functional domain.
4. The fusion polypeptide of claim 3, wherein the functional domain is an activation
- 15 domain.
5. An isolated polynucleotide encoding the zinc finger protein of claim 1.
6. An expression vector comprising the isolated polynucleotide of claim 5.
- 20 7. The expression vector of claim 6, comprising a plant promoter.
8. The expression vector of claim 7, wherein the promoter is tissue specific.

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